

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS FO Box 1430 Alexandria, Virginia 22313-1450 www.tepto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/766,677	01/27/2004	Naoyuki Nishikawa	B422-251	3038
26272. 7590 08/13/2009 COWAN LIEBOWITZ & LATMAN P.C. JOHN J TORRENTE			EXAMINER	
			NGUYEN, ALLEN H	
1133 AVE OF THE AMERICAS NEW YORK, NY 10036		ART UNIT	PAPER NUMBER	
			2625	
			MAIL DATE	DELIVERY MODE
			08/13/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/766,677 NISHIKAWA, NAOYUKI Office Action Summary Examiner Art Unit Allen H. Nauven -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 02 July 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-9 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-9 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 27 January 2004 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SZ/UE)
 Paper No(s)/Mail Date ______.

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

Application/Control Number: 10/766,677 Page 2

Art Unit: 2625

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 07/02/2009 has been entered. Currently, claims 1-9 are pending.

Examiner Notes

- 2. Examiner cites particular columns, line numbers, and/or paragraphs in the references as applied to the claims below for the convenience of Applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested that, in preparing responses, Applicant fully consider the references in their entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by
 Examiner
- 3. In view of the aforementioned, it is respectfully requested that Applicant reciprocate the courtesies extended by Examiner and cite specific support from the specification when amending claims. Examiner appreciates Applicant's good faith and dilicence in this matter.

Application/Control Number: 10/766,677 Page 3

Art Unit: 2625

Response to Arguments

 Applicant's arguments filed 07/02/2009 have been fully considered but they are not persuasive.

5. With respect to applicant 's arguments that "the network spooler (server 60) does not convert the print completion job generated by a spooling means into a format in which the job can be transferred to the remote printer over the global network using a predetermined transfer protocol; and the scheduler 50 does not transfer a print completion job converted into a transferable format by said transferring data conversion means to the remote printer over the global network using a predetermined transfer protocol".

In response: Lobiondo '194 discloses transferring data conversion means (Input Criteria, fig. 3) for converting the print completion job generated by said spooling means (Print spooler, fig. 3) into a format in which the job can be transferred to the remote printer over the network (A user at one of the workstations 30 of the network enters a request to print a job, sends the print job data to a network print spooler 60, and enters all necessary criteria which is stored in an input data file in memory. Depending on the type of data to be printed, such as type of document, sizing criteria, formatting, margins, where copies are to be sent. A means by which Input Criteria could be compared, judged and converted according to the remote printer; see col. 3, lines 35-65 and col. 6, lines 20-30) using a predetermined transfer protocol (col. 3, lines 20-25 states the

Art Unit: 2625

network can be Xerox Ethernet system. Xerox Ethernet system inherently has protocol used in the system used by Xerox); and

remote transfer means (Routines, fig. 3) for transferring the print completion job (scheduling routine and system which provide optimum scheduling of printer jobs on a network, col. 2, lines 40-45) converted into a transferrable format by said transferring data conversion means (Input criteria means such as type of document, sizing criteria, formatting, margins, where copies are converted to be sent, etc; see col. 3, lines 50-60) to the remote printer over the network (a plurality of local and remote printers attached to a network, col. 2, lines 20-25, fig. 1) using the predetermined transfer protocol (the scheduler 50 of print server may provide the format and procedure that governs the relating to a print job, selecting alternative printers located near predetermined location and allocating the job between a plurality of printers 10 at different remote locations, col. 5, lines 34-45).

6. With respect to applicant 's arguments that "Hanson patent does not teach or suggest a remote printing server which receives data from a client computer via a local network and sends data over a global network so as to print the data on a remote printer which does not exist in the local network".

In response: Lobiondo '194 does not explicitly show a remote printing server which receives data from a client computer via a local network and sends data over a global network so as to print the data on a remote printer which does not exist in the local network.

Art Unit: 2625

However, the above-mentioned claimed limitations are well known in the art as evidenced by Hanson '346. In particular, Hanson '346 teaches a remote printing server (WWW Server, fig. 1) which receives data from a client computer (PC 23, fig. 1) via a local network (Company A Local Net 20, fig. 1) and sends data over a global network (Internet 22, fig. 1) so as to print the data on a remote printer (the administrator can assign a proxy server on networks which have a gateway to the Internet and the firewall of the administrator's network. With a firewall installed, there is a need to assign a server which will act as a proxy on the outside of the firewall. The proxy server will handle requests and/or data destined for machines located inside the firewall; see col. 4, lines 10-20, and col. 6, lines 55-65, fig. 1).

In view of the above, having the system of Lobiondo and then given the wellestablished teaching of Hanson, it would have been obvious to one having ordinary skill
in the art at the time of the invention was made to modify the system of Lobiondo as
taught by Hanson to include: a remote printing server which receives data from a client
computer via a local network and sends data over a global network so as to print the
data on a remote printer which does not exist in the local network, since Hanson stated
in col. 1, lines 5-10 that such a modification would ensure the field of data processing
and, more particularly, to an improved dynamic device driver that provides
communication between various devices and various operating systems across various
types of networking systems.

Page 6

Application/Control Number: 10/766,677

Art Unit: 2625

Claim Rejections - 35 USC § 112

7. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- 8. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 9. Claims 1-9 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor, at the time the application was filed, had possession of the claimed invention.

Regarding claims 1, 8-9, the limitation of "informing the client computer of a completion of a print process in the local network before the print data is actually printed" is subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor, at the time the application was filed, had possession of the claimed invention.

Claims 1, 8-9 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The limitation of "informing the client computer of a completion of a print process in the local network before the print data is actually printed" contains subject matter which was not described in the specification in

Art Unit: 2625

such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Regarding claims 2-6, claims 2-6 are rejected under 35 U.S.C. 112, first paragraph because they depend on rejected claim 1.

Claims 1, 8-9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 1, 8-9, the limitation of "informing the client computer of a completion of a print process in the local network before the print data is actually printed" as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is not clear how the a print job is completed before the print job is even printed.

Regarding claims 2-6, claims 2-6 are rejected under 35 U.S.C. 112, second paragraph because they depend on rejected claim 1.

Claim Rejections - 35 USC § 103

10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

Art Unit: 2625

invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 1, 3-4, 6-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lobiondo (US 5,287,194) in view of Hanson (US 6,148,346).

Regarding claim 1, Lobiondo '194 discloses a remote printing server (Print server 60, fig. 1) which receives data from a client computer (Workstation 30, fig. 1) via a local network (Communication link 20, fig. 1) and sends data over a network (i.e., the network can be a LAN; col. 3, lines 20-25) so as to print the data on a remote printer (a routine which can schedule and distribute a large job among a plurality of local and remote printers attached to a network, col. 2, lines 20-25, fig. 1), comprising:

print response means (Scheduler 50, fig. 1) for performing a print control protocol (Ethernet system for a LAN protocol, col. 3, lines 20-25) for a local printer in the local network (i.e., the scheduler 50 is responsive to the capability and availability of each printer 10 on the network; see col. 3, lines 64-67) so that the client computer (Workstation 30, fig. 1) can recognize said remote printing server (Print server 60, fig. 1) as a local printer in the local network (a plurality of local and remote printers attached to a network, col. 2, lines 20-25, fig. 1), receiving print data from the client computer and generating a print job for performing a response process when the data is printed (i.e., a user at one of the workstations 30 of the network enters a request to print a job, sends the print job data to a network print spooler 60, and enters all necessary criteria which is stored in an input data file in memory; see col. 3, lines 55-60, fig. 1);

Art Unit: 2625

spooling means (Print Spooler, fig. 3) for spooling the print job generated by said print response means (i.e., the print job data can be input into the system and sent to a common print spooler 60. Upon analysis of available printers and the entered criteria, the scheduler 50 schedules one or more printers 10 for printing of the job; see col. 6, lines 25-35, fig. 3), informing the client computer of a completion of a print process in the local network before the print data is actually printed (i.e., the scheduler /print server can allocate the job to the selected printer and inform the user of where the job was scheduled and when completion is expected; see col. 5, lines 20-25), and generating a print completion job (i.e., the print queue is backed up and will have a completion time; see col. 5, lines 25-30);

transferring data conversion means (Input Criteria, fig. 3) for converting the print completion job generated by said spooling means (Print spooler, fig. 3) into a format in which the job can be transferred to the remote printer over the network (A user at one of the workstations 30 of the network enters a request to print a job, sends the print job data to a network print spooler 60, and enters all necessary criteria which is stored in an input data file in memory. Depending on the type of data to be printed, such as type of document, sizing criteria, formatting, margins, where copies are to be sent. A means by which Input Criteria could be compared, judged and converted according to the remote printer; see col. 3, lines 35-65 and col. 6, lines 20-30) using a predetermined transfer protocol (col. 3, lines 20-25 states the network can be Xerox Ethernet system. Xerox Ethernet system inherently has protocol used in the system used by Xerox); and

Art Unit: 2625

remote transfer means (Routines, fig. 3) for transferring the print completion job (scheduling routine and system which provide optimum scheduling of printer jobs on a network, col. 2, lines 40-45) converted into a transferrable format by said transferring data conversion means (Input criteria means such as type of document, sizing criteria, formatting, margins, where copies are converted to be sent, etc; see col. 3, lines 50-60) to the remote printer over the network (a plurality of local and remote printers attached to a network, col. 2, lines 20-25, fig. 1) using the predetermined transfer protocol (col. 3, lines 20-25 states the network can be Xerox Ethernet system. Xerox Ethernet system inherently has protocol used in the system used by Xerox).

Lobiondo '194 does not explicitly show a remote printing server which receives data from a client computer via a local network and sends data over a global network so as to print the data on a remote printer which does not exist in the local network.

However, the above-mentioned claimed limitations are well known in the art as evidenced by Hanson '346. In particular, Hanson '346 teaches a remote printing server (WWW Server, fig. 1) which receives data from a client computer (PC 23, fig. 1) via a local network (Company A Local Net 20, fig. 1) and sends data over a global network (Internet 22, fig. 1) so as to print the data on a remote printer (the administrator can assign a proxy server on networks which have a gateway to the Internet and the firewall of the administrator's network. With a firewall installed, there is a need to assign a server which will act as a proxy on the outside of the firewall. The proxy server will handle requests and/or data destined for machines located inside the firewall; see col. 4, lines 10-20, and col. 6, lines 55-65, fig. 1).

Art Unit: 2625

In view of the above, having the system of Lobiondo and then given the wellestablished teaching of Hanson, it would have been obvious to one having ordinary skill
in the art at the time of the invention was made to modify the system of Lobiondo as
taught by Hanson to include: a remote printing server which receives data from a client
computer via a local network and sends data over a global network so as to print the
data on a remote printer which does not exist in the local network, since Hanson stated
in col. 1, lines 5-10 that such a modification would ensure the field of data processing
and, more particularly, to an improved dynamic device driver that provides
communication between various devices and various operating systems across various
types of networking systems.

Regarding claim 3, Lobiondo '194 does not explicitly show the remote printing server, further comprising: selection means for selecting a transfer protocol for remote transfer of the data.

However, the above-mentioned claimed limitations are well known in the art as evidenced by Hanson '346. In particular, Hanson '346 teaches the remote printing server (Server 57, fig. 2), further comprising:

selection means (i.e., FTPping, col. 3, line 33) for selecting a transfer protocol for remote transfer of the data (i.e., file transfer protocol sending or FTPing of various documents, such as Excel, Word, MacWrite, etc., to a peripheral device for execution; see col. 3, lines 30-35).

Art Unit: 2625

In view of the above, having the system of Lobiondo and then given the wellestablished teaching of Hanson, it would have been obvious to one having ordinary skill
in the art at the time of the invention was made to modify the system of Lobiondo as
taught by Hanson to include: the remote printing server, further comprising: selection
means for selecting a transfer protocol for remote transfer of the data, since Hanson
stated in col. 1, lines 5-10 that such a modification would ensure the field of data
processing and, more particularly, to an improved dynamic device driver that provides
communication between various devices and various operating systems across various
types of networking systems.

Regarding claim 4, Lobiondo '194 does not explicitly show the remote printing server, wherein said remote transfer means uses a file transfer protocol or a mail distribution protocol.

However, the above-mentioned claimed limitations are well known in the art as evidenced by Hanson '346. In particular, Hanson '346 teaches the remote printing server (Server 57, fig. 2), wherein said remote transfer means (i.e., FTPping, col. 3, line 33) uses a file transfer protocol (i.e., file transfer protocol sending or FTPing of various documents, such as Excel, Word, MacWrite, etc., to a peripheral device for execution; see col. 3, lines 30-35) or a mail distribution protocol.

In view of the above, having the system of Lobiondo and then given the wellestablished teaching of Hanson, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify the system of Lobiondo as

Art Unit: 2625

taught by Hanson to include: the remote printing server, wherein said remote transfer means uses a file transfer protocol or a mail distribution protocol, since Hanson stated in col. 1, lines 5-10 that such a modification would ensure the field of data processing and, more particularly, to an improved dynamic device driver that provides communication between various devices and various operating systems across various types of networking systems.

Regarding claim 6, Lobiondo '194 discloses the remote printing server (Print server 60, fig. 1), further comprising:

transfer control means (Schedule 50, fig. 1) for controlling a transfer parameter setting file (printing parameters, col. 6, lines 54-55) and said remote transfer means by referring to the transfer parameter setting file (i.e., the scheduler 50 then examines the printer queue (step 430) and determines if the printer can complete the job by the required time (step 440). If the job can be completed on time the job is allocated to the printer (step 450). The user is then informed of the job schedule (step 460). If the printer cannot complete the job by the required time, the amount of the job that can be completed on time is determined (step 415); see col. 6, lines 55-65, fig. 4).

Regarding claim 7, Lobiondo '194 discloses a remote print system (Fig. 1), comprising: the remote printing server (Print Server 60, fig. 1) and the remote printer (Printers 10, fig. 1).

Art Unit: 2625

Regarding claim 8, claim 8 is the method claim of device claim 1. Therefore, method claim 8 is rejected for the reason given in device claim 1.

Regarding claim 9, Lobiondo '194 discloses a computer-readable storage medium storing a program used to direct a computer to use as a remote printing server (i.e., the information, which contains criteria for printing the job, can be sent to and temporarily stored in a buffer, RAM or other storage means located within a print server 60 or associated with the network and accessible by the print server 60; see col. 3, lines 35-45, fig. 1) for receiving data from a client computer (Workstation 30, fig. 1) via a local network (i.e., the network can be a LAN; col. 3, lines 20-25) and for sending data over a network so as to print the data on a remote printer (a routine which can schedule and distribute a large job among a plurality of local and remote printers attached to a network, col. 2, lines 20-25, fig. 1), comprising:

a print response step (410, fig. 4) of performing a print control protocol (Ethernet system for a LAN protocol, col. 3, lines 20-25) for a local printer in the local network (i.e., the scheduler 50 is responsive to the capability and availability of each printer 10 on the network; see col. 3, lines 64-67) so that the client computer (Workstation 30, fig. 1) can recognize said remote printing server (Print server 60, fig. 1) as a local printer in the local network (a plurality of local and remote printers attached to a network, col. 2, lines 20-25, fig. 1), receiving print data from the client computer and generating a print job for performing a response process when the data is printed (i.e., a user at one of the workstations 30 of the network enters a request to print a job, sends

Art Unit: 2625

the print job data to a network print spooler 60, and enters all necessary criteria which is stored in an input data file in memory; see col. 3, lines 55-60, fig. 1);

a spooling step (430, fig. 4) of spooling the print job generated in said print response step (i.e., the print job data can be input into the system and sent to a common print spooler 60. Upon analysis of available printers and the entered criteria, the scheduler 50 schedules one or more printers 10 for printing of the job; see col. 6, lines 25-35, fig. 3), informing the client computer of a completion of a print process in the local network <u>before the print job is actually printed</u> (i.e., the scheduler /print server can allocate the job to the selected printer and inform the user of where the job was scheduled and when completion is expected; see col. 5, lines 20-25), and generating a print completion job (i.e., the print queue is backed up and will have a completion time; see col. 5, lines 25-30);

a transferring data conversion step (450, fig. 4) of converting the print completion job generated in said spooling step (Print spooler, fig. 3) into a format in which the job can be transferred to the remote printer over the network (A user at one of the workstations 30 of the network enters a request to print a job, sends the print job data to a network print spooler 60, and enters all necessary criteria which is stored in an input data file in memory. Depending on the type of data to be printed, such as type of document, sizing criteria, formatting, margins, where copies are to be sent. A means by which Input Criteria could be compared, judged and converted according to the remote printer; see col. 3, lines 35-65 and col. 6, lines 20-30) using a predetermined transfer

Art Unit: 2625

<u>protocol</u> (col. 3, lines 20-25 states the network can be Xerox Ethernet system. Xerox Ethernet system inherently has protocol used in the system used by Xerox);

a remote transfer step (460, fig. 4) of transferring the print completion job (scheduling routine and system which provide optimum scheduling of printer jobs on a network, col. 2, lines 40-45) converted into a transferrable format in said transferring data conversion step (Input criteria means such as type of document, sizing criteria, formatting, margins, where copies are converted to be sent, etc; see col. 3, lines 50-60) to the remote printer over the network (a plurality of local and remote printers attached to a network, col. 2, lines 20-25, fig. 1) using the predetermined transfer protocol (col. 3, lines 20-25 states the network can be Xerox Ethernet system. Xerox Ethernet system inherently has protocol used in the system used by Xerox).

Lobiondo '194 does not explicitly show a remote printing server for receiving data from a client computer via a local network and sends data over a global network so as to print the data on a remote printer which does not exist in the local network.

However, the above-mentioned claimed limitations are well known in the art as evidenced by Hanson '346. In particular, Hanson '346 teaches a remote printing server (WWW Server, fig. 1) for receiving data from a client computer (PC 23, fig. 1) via a local network (Company A Local Net 20, fig. 1) and sends data over a global network (Internet 22, fig. 1) so as to print the data on a remote printer (WWW attached Printers 36, fig. 1) which does not exist in the local network (the administrator can assign a proxy server on networks which have a gateway to the Internet and the firewall of the administrator's network. With a firewall installed, there is a need to assign a server

Art Unit: 2625

which will act as a proxy on the outside of the firewall. The proxy server will handle requests and/or data destined for machines located inside the firewall; see col. 4, lines 10-20, and col. 6, lines 55-65, fig. 1).

In view of the above, having the system of Lobiondo and then given the wellestablished teaching of Hanson, it would have been obvious to one having ordinary skill
in the art at the time of the invention was made to modify the system of Lobiondo as
taught by Hanson to include: a remote printing server for receiving data from a client
computer via a local network and sends data over a global network so as to print the
data on a remote printer which does not exist in the local network, since Hanson stated
in col. 1, lines 5-10 that such a modification would ensure the field of data processing
and, more particularly, to an improved dynamic device driver that provides
communication between various devices and various operating systems across various
types of networking systems.

12. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lobiondo (US 5,287,194) in view of Hanson (US 6,148,346) and further in view of Kitagawa et al. (US 5,799,206).

Regarding claim 2, the combination of Lobiondo '194 and Hanson '346 does not explicitly show the remote printing server, further comprising:

recovery means for performing a recovery process on the print completion job transferred by said remote transfer means as necessary.

Art Unit: 2625

However, the above-mentioned claimed limitation is well known in the art as evidenced by Kitagawa '206. In particular, Kitagawa '206 teaches recovery means (i.e., detected contents; see col. 3, lines 1-5) for performing a recovery process on the print completion job transferred by said remote transfer means as necessary (i.e., the host computer can check the status of the printer by utilizing the detected contents which is set in the polling response data unit and in the event that normal printing is not carried out, it can inform the user of host computer 110 of a cause of an error and conduct the error recovery processing such as re-sending of a print job; see col. 3, lines 5-15).

In view of the above, having the combination system of Lobiondo and Hanson and then given the well-established teaching of Kitagawa, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify the system of Lobiondo and Hanson as taught by Kitagawa to include: recovery means for performing a recovery process on the print completion job transferred by said remote transfer means as necessary, since Kitagawa stated in col. 1, lines 10-15 that such a modification would ensure the host computers are capable of recognizing the status of the network printer and control the operation thereof and to a computer used in the remote print system.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lobiondo
 (US 5,287,194) in view of Hanson (US 6,148,346), and further in view of Ogishima (US 2002/0083001).

Art Unit: 2625

Regarding claim 5, the combination of Lobiondo '194 and Hanson '346 does not explicitly show the remote printing server, further comprising: encipher means for enciphering the print completion job transferred by said remote transfer means.

However, the above-mentioned claimed limitation is well known in the art as evidenced by Ogishima '001. In particular, Ogishima '001 teaches the remote printing server (12, fig. 3), further comprising: encipher means for enciphering the print completion job transferred by said remote transfer means (i.e., a transmitting step enciphering requested data in the server and transmitting enciphered data via a network, a deciphering step receiving and deciphering the enciphered data in an apparatus which at least has a printing function; see page 2, paragraph [0019], fig. 3).

In view of the above, having the system of Lobiondo and Hanson and then given the well-established teaching of Ogishima, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify the system of Lobiondo and Hanson as taught by Ogishima to include: The remote printing server, further comprising: encipher means for enciphering the print completion job transferred by said remote transfer means, since Ogishima stated on page 1, paragraph [0007] that such a modification would ensure various enciphering systems have been proposed to prevent copying of the digital data, by enciphering the digital data before transmission at the transmitting end and deciphering the enciphered digital data at the receiving end.

Application/Control Number: 10/766,677 Page 20

Art Unit: 2625

Conclusion

14. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Barry et al. (US 5,940,186) discloses multiple printer module electro photographic printing devices.

Sugiura et al. (US 2002/0080391) discloses print control method, a print server, a client and a recording medium in a network environment.

Kageyama et al. (US 5,625,757) discloses printing system.

15. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allen H. Nguyen whose telephone number is (571)270-1229. The examiner can normally be reached on 9:00 AM-6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, KING Y. POON can be reached on (571) 272-7440. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/766,677 Page 21

Art Unit: 2625

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/King Y. Poon/ Supervisory Patent Examiner, Art Unit 2625

/Allen H. Nguyen/ Examiner, Art Unit 2625